

7. Implementation and Technology Transfer Plan

In this project, two designs of the double-face W-beam guardrail were evaluated and compared to the single-face W-beam. All simulation results will be submitted to NCDOT for consideration in future installation or retrofitting the current single-face W-beam guardrails when allowed by site conditions and deemed necessary by NCDOT officials. The results and analysis of the CMB performance on a 4:1 slope will also be submitted to NCDOT for consideration of further improvement.

The research results of this project will be distributed to the public through this report, which will be made available by NCDOT. The research finding will also be circulated to and shared with state and local agencies through the NCDOT Guardrail Committee, Traffic Engineering Roundtables, Operations meetings, and possible Webinars.

The modeling and simulation work along with research findings will be presented at national and international conferences such as the Transportation Research Board Annual Meetings, the U.S. National Congress on Computational Mechanics, and the World Congress on Computational Mechanics. The results of this research will also be submitted for publication in technical journals such as the Transportation Research Records and Finite Elements in Analysis and Design.